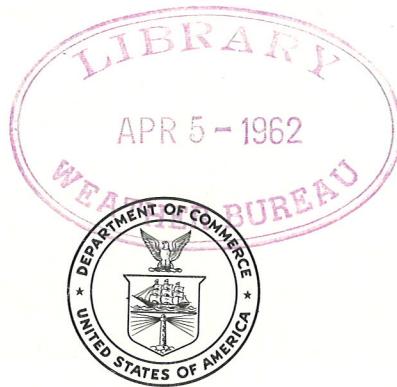


U. S. DEPARTMENT OF COMMERCE  
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CLIMATOGRAPHY OF THE UNITED STATES NO. 81-32

DECENNIAL CENSUS OF UNITED STATES CLIMATE—  
MONTHLY NORMALS OF TEMPERATURE,  
PRECIPITATION, AND HEATING DEGREE DAYS

PENNSYLVANIA



WASHINGTON, D. C.:1962

## PREFACE

The climatological standard normals presented in this publication are based on records for the 30-year period 1931-1960 inclusive. For the first time, normals have been computed for substations and divisions using a base period identical to that used for first-order stations.

Previous normals were published in Weather Bureau Technical Paper No. 31, "Monthly Normal Temperatures, Precipitation, and Degree Days," and were based on records for the period 1921-1950. Earlier sets of normals are described in [1].

This is the first series of publications resulting from the project "The Decennial Census of United States Climate, 1960." The project is a continuation of earlier censuses of the climate of the United States that date back to the early 19th Century and are described in [2]. Future publications of this project will be listings of daily normals of temperature, and degree days; summaries of hourly observations; and listings of monthly divisional averages of temperature and precipitation.

Units used in this publication are degrees F. for temperatures, and inches for precipitation. The heating degree day normals are derived from the monthly normal temperatures, and are computed on the standard base of 65°F. Monthly normals of less than 5 degree days are shown as zero.

### Standard Normals for Weather Bureau First Order Stations

A normal of a climatological element is an arithmetic mean for a specific period of record which estimates the true mean of the element at the current exposure of the meteorological instrument measuring the element. The true mean is the mean of all possible observations (population) at the current exposure. It is from this population that future observations will come, not from values in the past record. This is what makes it important to obtain an estimate of this mean. The true mean can never be known exactly but must be estimated from a sample of the past record ([3] p. 53 section 4.3). The normals presented here are estimates of the true mean obtained from the 30-year sample record 1931-1960. They are called standard normals because they conform to the World Meteorological Organization standard for climatological normals.

If no exposure changes have occurred at a station the normal is estimated by simply averaging the 30 values from the 1931-1960 record. Since it is next to impossible to maintain a multiple purpose network of meteorological stations without having exposure changes, it is first necessary to find and evaluate these changes and then make adjustments for them if necessary.

Heterogeneities in record due to exposure changes are found in two ways: by determining them from the station histories and by use of statistical tests. The statistical test when standardized for the purpose is easy to apply and will often find heterogeneities which are not defined by the station histories as well as those which have been so determined. Two statistical tests were employed: one for temperature and the other for precipitation. These are described in [4].

After the periods of heterogeneity have been determined, adjustments are applied to remove the heterogeneities introduced into the mean. This is done by comparing the record at the base station, for which the normal is desired, to the record at a supplementary station with a homogeneous period which covers the heterogeneous period at the base station. The difference method is applied to the

### NOTES

#### 1. Station Names

In Table I, "AP" after the city name indicates "airport station" "CO" indicates "city office station." Figures and letters following the station name indicate a rural location, and refer to the distance and direction of the station from the nearest post office.

# indicates a station whose location has been essentially unchanged during the period 1931-1960.

H indicates the ground elevation of the station in feet above sea level, as of December 31, 1960.

G indicates the elevation at hygrothermometer site (where different from "H").

T indicates the height of the thermometer in feet above the ground as of December 31, 1960.

monthly average maximum and minimum temperatures and the ratio method to the monthly total precipitation. A weighted average of the various partial means of the adjusted and unadjusted record is then prepared to give the normal. Brief discussions of the methods of adjustment are found in [3] (p. 49, section 4.24).

Normal heating degree days are derived by the method described in [5].

### Normals for Substations and Divisions

Normals for substations were computed somewhat differently than those for first-order stations. Monthly substation normals are the simple arithmetic averages of the monthly values of temperature and precipitation for the period 1931-1960. These were computed for only those substations that were active during the entire period and no attempt was made to adjust for minor changes in location of the observing site, or for changes in the time of observation. Normals were not computed for substations that were moved a significant distance during the 1931-1960 period. Missing values in the data series were estimated by methods described in [6]. Substations whose locations were essentially unchanged during the 1931-1960 period are identified in the tables.

Monthly divisional normals are the means of the monthly divisional averages of temperature and precipitation for the period 1931-1960. In calculating the monthly divisional averages, all of the stations in the division that furnished both temperature and precipitation data during the particular month were used. The averages therefore were obtained from a variable station sample. As a result, the divisional normals often differ from the averages of the normals for stations in the division.

Annual substation and divisional normals are the averages of the 12 monthly temperature normals and the sums of the 12 monthly precipitation normals.

### References

1. U. S. Weather Bureau, "History of Climatological Publications," Key to Meteorological Records Documentation No. 4.1, Washington, D. C., 1958.
2. H. E. Landsberg, "The Decennial United States Census of Climate 1960 and Its Antecedents," Key to Meteorological Records Documentation No. 6.2, U. S. Weather Bureau, Washington, D. C., 1960.
3. U. S. Weather Bureau, Climatology at Work, Gerald L. Barger, ed., Washington, D. C., 1960.
4. H. C. S. Thom, "Tests of Significance for Temperature and Precipitation Normals," U. S. Weather Bureau Manuscript, 1961.
5. H. C. S. Thom, "The Rational Relationship Between Heating Degree Days and Temperature," Monthly Weather Review, Vol. 82, No. 1, January 1954.
6. U. S. Weather Bureau, Administrative Manual, Vol. III, Chap. C-05, paras. C-0509 and C-0510.

### NOTES

/NO TEST/ indicates that significant difference tests were not made.

#### 2. Table Content

\* indicates that the departure of the 1951-60 record from the 1921-50 normal is statistically significant, but through the adjustments for changes in location and exposure the absolute difference between old and new normals may even in these cases be very small.

T in the data tables indicates a monthly precipitation amount of only a trace.

February monthly normals are for a 28-day month.

TABLE I - NORMALS FOR FIRST ORDER STATIONS

PENNSYLVANIA

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
ALLENTOWN AP	H 376 T 6	36.7	38.0*	47.0	60.5*	73.0	80.7	85.2	82.7	75.6	64.9	51.2	39.3*	61.2
MAX TEMP	21.3	20.4*	30.1	49.3	60.4	58.1	62.0	61.2	53.7	42.6	32.5	23.2	20.9	
MIN TEMP	29.0	29.2*	37.6	49.3	60.4	69.4	74.1	72.0	64.7	53.8	41.9	31.3*	51.1	
DEG DAYS	1116	1002*	849	471*	167	24	0	0	90	353	693	1045*	5810	
PRECIP	3.17	2.64	3.79*	3.76*	4.08	4.07	4.82	4.47	3.75	2.97	3.33	3.27*	4.412	
ERIE AP	H 732 T 25	34.0	34.0	41.5	54.7*	66.1	76.1	80.1	78.5	72.1	61.0	48.0	36.8*	56.9
MAX TEMP	20.4	18.8*	28.6	36.3*	46.7	57.2	62.0*	61.1	54.5	44.2	34.4	24.5	20.5	
MIN TEMP	27.3	25.4*	35.5	45.5*	56.4	66.4	71.1*	69.8	63.3	54.6	42.2	30.7	48.7	
AVG TEMP	1169	1081*	973	58.0*	208	60	0	0	29	102	391	714	1063	
DEG DAYS	2.67	2.32	2.88	3.56	3.54	3.05	3.67	2.98*	3.56	3.30	3.36	2.61	37.50	
HARRISBURG AP	H 335 T 32	38.9	40.4*	49.0	62.0*	73.4	81.7	86.0	83.7	76.6	65.7	52.2	40.7	62.5
MAX TEMP	24.6	24.7*	31.5	41.5*	52.0	60.9	65.3	65.5	56.2	45.6	35.5	26.3	44.0	
MIN TEMP	31.8	32.6*	40.3	51.8*	62.7	71.3	75.1*	73.8*	66.4	55.7	42.8	33.9*	52.3	
AVG TEMP	1029	907*	766	396*	124	12	0	0	63	298	633	977	5205	
DEG DAYS	2.76	2.41*	3.43*	3.02	3.74	3.42	3.51*	3.65	2.82	2.97	2.95	2.91	37.65	
PHILADELPHIA AP-INTL	H 7 T 4	40.3	41.8	50.3	62.6*	73.4	81.6	85.9*	83.7	77.2	66.5	54.0	42.3	63.3
MAX TEMP	24.3	24.6*	31.6	41.4*	51.8	60.4	65.2	65.8*	56.2	44.9*	34.5	25.5*	43.7	
MIN TEMP	32.3	33.2*	41.0	52.0*	62.6	71.0	75.6*	73.8*	66.7	55.7*	44.3	33.9*	53.5	
AVG TEMP	1016	889*	747	392*	118	40	0	0	60	297*	620	962*	5144	
DEG DAYS	3.32	2.80	3.80*	3.40	3.74	4.05	4.16	4.63	3.46	2.78	3.40	2.94	42.48	
PITTSBURGH AP-GREATER	G1143 T 4	36.5	37.6	46.1*	60.0*	71.4	79.9	83.3	81.9	75.5	63.7	49.5	38.1	60.3
MAX TEMP	21.2	20.7*	27.4	37.9*	48.1	56.9	60.9*	59.5	52.8	42.4	32.0	23.2	40.3	
MIN TEMP	28.9	29.2*	36.8	49.0*	59.8	68.4	72.1*	70.8*	64.2	53.1	40.8	30.7	50.3	
AVG TEMP	1119	1002*	874	480*	195	39	0	9*	105	375	726	1063	5987	
DEG DAYS	2.97	2.19	3.32	3.08	3.91	3.78	3.88	3.31	2.54	2.52	2.40	2.40	36.14	
PITTSBURGH CO	H 749 T 173	40.4	41.2	48.9	62.1*	73.4	81.9	85.4	83.5*	77.0	65.4	52.2	41.7	62.8
MAX TEMP	26.2	25.5	31.9	42.3*	52.6*	61.9	66.1	64.5	57.5*	46.8	36.8	28.3	45.0	
MIN TEMP	33.3	33.4	40.4	52.2*	63.0*	71.9	75.8	74.0*	67.3*	56.1	44.5	35.0	53.9	
AVG TEMP	983	885	763	390*	124*	12	0	0	60*	291	615	930	5053	
DEG DAYS	2.82	2.31	3.52	3.37*	3.75	3.95	3.60	3.50*	2.67	2.50	2.34*	2.54	36.87	
READING CO	H 266 T 49	39.1	40.5*	49.4	62.2*	73.4	81.9	86.4*	84.0*	77.0	66.6	52.7	41.3	62.9
MAX TEMP	26.3	26.2*	33.1	43.0*	53.2	62.5	67.3*	65.5	58.0	47.8	37.5	28.0	45.7	
MIN TEMP	32.7	33.4*	41.3	52.6*	63.3	72.2	76.9*	74.0*	67.5	57.2	45.1	34.7	54.3	
AVG TEMP	1001	885*	735	372*	105	105	0	0	54	257	597	939	4946	
DEG DAYS	3.07	2.64	3.78*	3.42*	3.79	3.72	4.26	4.05	3.32	2.84	3.40	3.14*	41.43	
SCRANTON AP	G 930 T 7	32.6	34.1*	42.7	56.4*	68.4	76.4	80.6	77.8	70.4	59.7	46.2	34.8	56.7
MAX TEMP	20.7	20.4*	27.7	38.4*	48.7	57.9	62.2	60.2	52.5	42.3	32.9	22.9	40.6	
MIN TEMP	26.7	27.3*	35.2	47.4*	58.6	67.2	71.4	69.0	61.5	51.0	39.6	28.9	48.7	
AVG TEMP	1187	1056*	924	52.8*	217	45	0	28	153	434	762	1119	6453	
DEG DAYS	2.92	1.99*	2.82	3.27	3.95*	3.91*	4.79*	3.58	2.97	3.50	2.94	2.47	38.48	
WILLIAMSPORT AP	H 527 T 5	36.1	37.6	46.6	60.2	72.0	80.5	85.4*	83.1	75.4	64.0	49.5	37.9	60.7
MAX TEMP	21.4	20.8*	28.1	38.6*	48.7	57.9	61.8	60.0	52.8	42.1	32.7*	22.9	40.7	
MIN TEMP	28.8	29.2*	37.4	49.4*	60.4	69.2	73.6*	71.6	64.1	53.1	41.1*	30.4	50.7	
AVG TEMP	1122	1002*	856	468*	177	24	0	9	111	375	717*	1073	5934	
DEG DAYS	2.67	2.51*	3.73	3.55	4.08	3.23	4.18	3.62	3.27	3.32	3.45	3.04	40.65	

TABLE II - NORMALS BY CLIMATOLOGICAL DIVISIONS

TEMPERATURE (°F)

PRECIPITATION (In.)

STATIONS (By Divisions)	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY
<b>POCONO MOUNTAINS</b>													
#FREELAND	25.4	25.8	33.4	45.8	57.1	63.9	70.3	68.4	61.6	51.1	38.8	27.7	47.97
#BOLDSBORO	*	*	*	*	*	*	*	*	*	*	*	*	
HANLEY	*	*	*	*	*	*	*	*	*	*	*	*	
#HOLLISTERVILLE	*	*	*	*	*	*	*	*	*	*	*	*	
LAKEVILLE 1 NNE	*	*	*	*	*	*	*	*	*	*	*	*	
#MATAHORAS	*	*	*	*	*	*	*	*	*	*	*	*	
MT POCONO 2 N	*	*	*	*	*	*	*	*	*	*	*	*	
#PAUPACK 2 NW	*	*	*	*	*	*	*	*	*	*	*	*	
#PLEASANT MOUNT 1 W	*	*	*	*	*	*	*	*	*	*	*	*	
#SCRANTON	28.4	28.6	36.5	48.5	59.6	68.3	70.5	70.7	63.4	59.0	41.8	31.2	44.21
SCRANTON AP	26.7	27.3	35.2	47.4*	58.6	67.2	71.4	69.0	61.5	51.0	39.1	29.6	43.79
STROUDSBURG	28.0	28.0	36.6	48.5	59.3	68.0	72.7	70.5	63.0	52.5	41.6	31.1	44.88
WILKES BARRE	*	*	*	*	*	*	*	*	*	*	*	*	
DIVISION	25.9	26.2	34.0	46.3	57.3	65.6	70.0	68.1	60.9	50.8	39.4	26.6	44.74
<b>EAST CENTRAL MOUNTAINS</b>													
ALLENTOWN AP	29.0	29.2	37.6	49.3	60.4	69.6	74.1	72.0	64.7	53.1	31.7	21.7	44.12
ALLENTOWN GAS CO	30.1	30.5	38.2	50.0	60.9	69.7	74.5	72.2	65.0	54.4	32.8	21.8	44.56
#BETHLEHEM LEHIGH UNIV	31.1	32.1	39.8	51.5	62.2	71.1	73.5	66.8	56.2	44.3	31.1	21.7	44.56
#PALMERTON	29.2	29.6	37.4	49.0	59.7	68.4	73.1	70.9	63.5	52.9	31.6	21.6	44.07
#FIRE GROVE 1 NE	*	*	*	*	*	*	*	*	*	*	*	*	
PORT CLINTON	29.6	30.7	37.5	49.0	59.7	68.2	72.7	70.6	63.4	52.8	31.6	21.6	44.99
#TAHAQUA 4 N DAH	*	*	*	*	*	*	*	*	*	*	*	*	
DIVISION	29.2	29.7	37.3	49.1	59.9	68.5	73.0	70.9	63.9	53.3	31.6	21.7	45.60
<b>SOUTHEASTERN PIEDMONT</b>													
COATESVILLE 1 SW	31.4	31.6	39.2	50.7	61.3	70.4	74.9	72.8	64.7	52.4	33.0	22.8	44.21
COSHNAHOCKEN	*	*	*	*	*	*	*	*	*	*	*	*	
#DOYLESTOWN	*	*	*	*	*	*	*	*	*	*	*	*	
EPHRATA	32.1	32.9	40.7	52.0	62.8	71.4	75.8	73.7	66.6	54.3	32.9	22.7	44.37
#GEORGE SCHOOL	31.8	32.4	39.8	51.0	61.5	70.1	74.8	72.9	66.2	55.6	34.3	23.7	45.08
#GRATERTOWN	*	*	*	*	*	*	*	*	*	*	*	*	
#HARRISBURG NORTH	*	*	*	*	*	*	*	*	*	*	*	*	
HOLYTWOOD	32.8	33.2	40.7	52.1	63.4	72.5	77.5	75.7	68.8	57.4	45.3	34.7	42.86
#LANCASTER ZNE PUMP STA	31.6	32.5	40.6	51.6	62.2	70.3	74.4	72.4	65.4	54.0	43.1	32.8	42.66
LEBANON 3 W	30.3	30.9	38.7	50.4	61.5	70.4	75.1	72.9	65.5	54.6	42.6	32.1	43.66
#NARCS HOOK	35.6	36.5	43.9	54.6	65.6	74.6	79.0	77.1	70.2	59.8	47.9	38.0	45.52
#MEHERRIN FALLS	*	*	*	*	*	*	*	*	*	*	*	*	
PHILADELPHIA AP-INTL	32.3	33.2	41.0	52.0	62.6	71.0	75.6	73.6	66.7	55.7	44.3	34.3	44.30
PHILADELPHIA PT BREEZE	35.1	35.8	42.9	53.7	64.6	72.2	77.8	76.0	69.8	59.2	48.0	37.7	45.34
#PHOENIXVILLE 1 E	32.9	33.5	41.5	52.8	63.2	71.7	76.3	74.1	67.3	56.3	45.1	34.2	44.49
#QUAKERTOWN 1 E	30.0	30.6	38.6	50.0	60.4	68.7	73.4	70.6	63.8	53.2	41.5	31.2	44.73
READING CO	32.7	33.4	41.3	52.6	63.3	72.2	76.8	74.8	67.5	57.2	45.9	34.9	44.43

TABLE II - NORMALS BY CLIMATOLOGICAL DIVISIONS

STATIONS (By Divisions)	TEMPERATURE (°F)												PRECIPITATION (In.)												PENNSYLVANIA		
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER			
<b>LOWER SUSQUEHANNA</b>																											
#ARENDSVILLE	30.7	31.3	39.0	50.8	61.5	70.2	74.6	72.8	65.5	54.4	42.5	32.1	52.1	2.96	2.45	3.93	3.74	4.29	3.40	4.34	3.51	3.57	3.30	3.15	4.05		
#BEECHVILLE 1 N															2.67	2.24	3.48	3.07	4.08	3.49	3.47	4.05	3.46	3.52	2.98	4.84	
#CARLISLE	31.6	32.7	40.9	52.6	62.3	71.7	75.8	73.7	66.5	55.4	43.5	33.0	53.4	3.73	4.13	3.67	3.46	4.05	3.11	3.31	3.32	3.26	3.13	3.19	4.92		
CHAMBERSBURG 1 ESE	31.6	32.6	40.1	51.4	62.1	70.8	74.9	73.0	65.9	54.7	43.0	33.0	52.8	3.02	2.32	3.77	3.46	4.10	3.48	3.95	4.08	3.30	3.12	2.98	4.33		
GETTYSBURG	32.7	33.6	41.2	52.6	63.0	71.5	75.7	73.8	66.9	56.1	44.6	34.2	53.8	2.92	2.48	3.84	3.51	4.07	3.52	4.15	4.22	3.32	3.31	3.26	4.55		
#HANOVER	32.8	33.4	40.8	52.3	63.0	71.5	75.8	73.8	66.9	56.1	44.8	34.0	56.1	3.01	2.40	3.82	4.03	4.24	3.08	4.24	3.07	3.30	3.15	3.15	4.50		
HARRISBURG AP	31.8	32.6	40.3	51.8	62.7	71.3	75.7	73.6	66.4	55.7	43.9	33.5	53.3	2.76	2.31	3.43	3.02	3.90	3.42	3.51	3.65	2.82	2.97	2.47	3.93		
#HEINZBURG	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.73	2.32	3.62	3.37	4.13	3.67	3.96	4.05	3.11	3.31	3.23	3.67	
#NEW PAX	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.61	2.60	3.94	3.17	4.39	4.20	4.25	3.22	3.64	3.46	3.27	4.35	
#SPRING GROVE	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.97	2.57	3.76	3.53	4.09	3.71	3.88	4.26	3.24	3.30	3.08	4.08	
#YORK 3 SSW PUMP STA	32.8	33.7	41.5	52.6	63.3	71.5	75.7	73.9	67.1	55.8	44.4	34.0	53.9	2.97	2.38	3.62	3.52	4.17	3.81	4.75	3.35	3.38	3.17	2.87	4.20		
DIVISION	31.8	32.7	40.3	51.8	62.5	71.0	75.3	73.4	66.3	55.3	43.6	33.3	53.1	2.92	2.39	3.72	3.50	4.17	3.78	3.66	4.16	3.18	3.26	3.03	4.15		
<b>MIDDLE SUSQUEHANNA</b>																											
BEAR GAP	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.80	2.47	3.73	3.55	4.11	4.01	4.83	4.01	3.50	3.51	3.71	3.22	4.75
#NEWPORT	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.90	2.37	3.55	3.56	4.07	3.71	4.19	4.11	3.03	3.44	3.37	3.05	4.15
#SHAMOKIN	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.82	2.63	3.73	3.49	4.49	3.85	4.58	3.91	3.43	3.32	3.54	3.27	4.06
SUNBURY	28.8	29.2	37.4	49.4	60.4	69.2	73.6	71.6	64.1	53.1	41.1	30.4	50.7	2.67	2.51	3.73	3.55	4.08	3.23	4.18	3.62	3.27	3.92	3.45	4.65		
DIVISION	29.4	30.2	38.0	49.8	60.7	69.2	73.4	71.6	64.5	53.5	41.8	31.1	51.1	2.70	2.28	3.60	3.54	4.28	3.48	3.87	3.88	3.19	3.23	3.31	2.90		
<b>UPPER SUSQUEHANNA</b>																											
#LAWRENCEVILLE 2 S	26.1	26.2	33.9	46.4	57.6	66.7	70.6	68.6	61.7	51.0	39.0	28.2	48.0	1.77	2.79	2.68	3.91	4.91	3.30	3.97	3.95	3.03	2.79	2.36	3.19		
#TOWANDA 1 ESE	27.4	27.6	35.4	47.5	58.3	67.0	71.3	69.5	62.5	51.8	40.6	29.8	49.0	1.86	1.93	2.86	3.09	4.02	3.18	3.84	3.49	2.95	2.62	2.17	3.34		
DIVISION	25.1	25.2	32.9	45.3	56.5	65.3	69.7	67.8	60.7	50.2	38.6	27.4	47.1	2.22	3.07	3.28	4.10	4.10	3.38	3.98	3.93	3.43	3.11	2.91	3.07		
<b>CENTRAL MOUNTAINS</b>																											
CLEARFIELD	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.19	2.62	4.00	3.97	4.39	4.13	4.30	3.78	3.04	3.04	3.11	3.09	4.26
LOCK HAVEN	29.4	30.1	38.0	50.8	61.4	69.7	73.5	71.7	64.6	53.5	41.3	31.0	51.3	2.57	2.21	3.67	3.39	4.31	3.48	4.33	3.14	3.14	3.22	2.77	4.02		
#RENOVO	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.46	2.19	3.46	3.38	4.31	3.72	4.20	3.18	2.67	3.03	3.02	2.66	3.28
RIDGEMONT 3 W	25.9	25.0	32.5	45.1	56.1	64.8	68.2	66.8	59.9	49.2	37.8	27.3	46.6	2.94	2.57	3.76	3.44	4.17	3.99	4.64	3.50	3.25	3.00	2.86	4.08		
#STATE COLLEGE	28.7	29.3	36.6	48.7	59.9	68.2	72.1	70.2	62.9	52.6	41.0	30.5	50.1	2.67	2.19	3.70	3.51	4.37	3.78	4.53	3.62	3.26	3.05	2.76	3.70		
DIVISION	26.8	27.0	34.5	46.8	57.8	66.1	70.0	68.3	61.3	50.8	39.1	28.5	48.1	2.82	2.38	3.71	3.60	4.41	3.00	4.26	3.77	3.03	3.06	2.86	4.09		
<b>SOUTH CENTRAL MOUNTAINS</b>																											
#ALTONA HORSESHEW CURVE	28.5	29.1	36.4	48.6	59.1	67.3	70.9	69.4	62.8	52.7	40.6	30.2	49.6	3.23	2.47	4.27	4.20	4.47	4.57	4.54	3.72	3.06	3.21	3.03	4.83		
#BUFFALO HILLS	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.69	2.03	3.53	3.28	4.06	3.65	4.46	3.95	3.53	2.93	2.60	3.70	
EBENSBURG	26.9	27.4	34.2	46.1	56.8	65.1	68.8	67.3	61.1	50.8	38.6	28.6	47.6	3.49	2.90	4.06	4.68	4.68	4.09	4.49	4.09	3.77	3.11	3.66			
HUNTINGDON	30.0	30.6	37.8	49.6	60.4	68.6	72.8	71.1	64.1	53.2	41.7	31.4	51.0	2.69	2.21	3.72	3.54	4.16	3.74	4.96	3.00	3.00	3.02	2.73			
HYNDMAN	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.55	2.19	3.42	3.59	4.35	3.55	4.31	3.83	2.57	2.65	2.41	3.47	
#JOHNSTOWN	30.8	31.4	38.6	50.2	60.9	69.6	73.1	71.5	62.7	54.3	42.5	32.4	51.5	3.64	3.07	4.24	4.25	4.52	4.45	4.70	4.10	2.99	2.74	3.30			
DIVISION	29.5	30.1	37.4	49.1	59.7	68.0	71.8	70.2	63.3	52.8	41.0	31.0	50.3	2.98	2.41	3.85	3.68	4.22	4.11	4.20	3.84	2.88	2.92	2.84			
<b>SOUTHWEST PLATEAU</b>																											
ACNETONIA LOCK 3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.20	2.66	3.70	3.76	3.98	4.20	4.12	3.85	2.76	2.69	2.79	2.79	
#BEAVER FALLS	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.67	2.18	3.10	3.21	3.74	3.47	3.65	3.45	2.67	2.31	2.45	3.36	
#BUTLER	30.3	30.5	37.9	49.7	59.9	68.1	72.6	70.6	64.1	53.3	41.6	31.6	50.9	2.96	2.57	3.45	3.76	4.34	3.95	4.46	3.77	3.21	2.81	3.30			
CHARLEROI LOCK 4	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.00	2.44	3.63	3.69	3.90	3.84	3.70	3.78	2.89	2.47	3.27	3.09	
CLAYSVILLE 3 W	31.1	31.6	38.8	49.9	60.1	68.7	71.9	70.4	64.3	53.1	41.4	32.0	51.1	3.07	2.52	3.63	3.49	4.08	4.28	4.29	3.73	3.20	2.55	4.04			
CONFLUENCE 1 NW	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.62	2.87	4.06	3.68	4.41	4.40	4.40	3.05	2.89	2.75	2.79	4.42	
CONNELLSVILLE	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.96	2.35	3.37	3.59	4.46	4.44	4.84	3.45	2.67	2.37	3.31	3.06	
CORALOPOLIS NEVILLE IS	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.66	2.13	3.23	3.33	3.81	3.77	3.88	2.69	2.50	2.37	3.31	3.06	
CREEKSIDER	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.24	2.74	3.71	3.67	3.98	4.12	4.59	3.81	3.92	3.20	2.95	3.30	
DONORA	34.3	34.9	41.8	53.3	63.4	72.3	75.7	74.2	67.9	57																	

1963 REVISIONS AND ADDITIONS TO  
CLIMATOGRAPHY OF THE UNITED STATES NO. 81-32  
PENNSYLVANIA

TABLE I — NORMALS FOR FIRST ORDER STATIONS

STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
HARRISBURG AP G 335 T 3													
MAX TEMP	38.9	41.4	50.0	63.0	74.4	82.7	87.0	84.7	77.6	66.7	52.2	40.7	63.3
MIN TEMP	23.6	23.7	30.5	40.5	51.0	59.9	65.3	63.5	56.2	44.6	34.5	25.3	43.2
AVG TEMP	31.3	32.6	40.3	51.8	62.7	71.3	76.2	74.1	66.9	55.7	43.4	33.0	53.3
DEG DAYS	1045	907	766	396	124	12	0	0	63	298	648	992	5251
PHILADELPHIA 10TH + CHES * H 35 T155													
MAX TEMP	41.6	42.7	50.4	62.3	73.1	81.4	85.7	83.6	77.4	67.1	54.9	43.8	63.7
MIN TEMP	28.8	28.5	34.9	44.2	54.9	63.9	69.5	68.0	61.3	51.0	40.8	31.0	48.1
AVG TEMP	35.2	35.6	42.7	53.3	64.0	72.7	77.6	75.8	69.4	59.1	47.9	37.4	55.9
DEG DAYS	924	823	691	351	93	0	0	0	30	205	513	856	4486
PRECIP	3.40	2.88	3.98	3.46	3.90	4.08	4.22	4.60	3.30	2.87	3.42	2.94	43.05
SCRANTON AP G 940 T 7													
MAX TEMP	33.6	35.1	43.7	57.4	69.4	77.4	81.6	78.8	71.4	59.7	46.2	34.8	57.4
MIN TEMP	21.7	21.4	28.7	39.4	49.7	58.9	63.2	61.2	53.5	42.3	32.9	23.9	41.4
AVG TEMP	27.7	28.3	36.2	48.4	59.6	68.2	72.4	70.0	62.5	51.0	39.6	29.4	49.4
DEG DAYS	1156	1028	893	498	195	33	0	19	132	434	762	1104	6254
PHILADELPHIA AP-INTL H 7 T 4	1014	890	744	390	115	12				291	621	964	5101
* NEW STATION													

REVISIONS TO FIRST ORDER STATIONS IN TABLE I AFFECT THE SAME STATIONS IN TABLE II.

USCOMM-WB-Asheville, N. C. -3/31/64- 2200

